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APPLICANT'S CHECK OF FORM PTO-1443 REV 7-98	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY NO <b>AHN-070CP4</b>	SERIAL NO <b>09/670,756</b>
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT <b>Rhodes, K. et al.</b> FILING DATE <b>September 27, 2000</b>	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
<input checked="" type="checkbox"/>	A1	WO 97/31112	08/97	PCT		
<input checked="" type="checkbox"/>	A2	WO 98/16185	04/98	PCT		
<input checked="" type="checkbox"/>	A3	WO 99/49038	09/99	PCT		

## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

<input checked="" type="checkbox"/>	A4	Adachi, Y. et al., "Identification and characterization of SET, a nuclear phosphoprotein encoded by the translocation break point in acute undifferentiated leukemia," <i>J. Biol. Chem.</i> , 269:2258-2262 (1994)
<input checked="" type="checkbox"/>	A5	Bilbe, G., et al., "Restin: a novel intermediate filament-associated protein highly expressed in the Reed-Sternberg cells of Hodgkin's disease," <i>EMBO J.</i> 11 (6):2103-2113 (1992)
<input checked="" type="checkbox"/>	A6	Bonaldo et al., GenBank Accession Number AA859724 [online], "Calcium-binding protein NCS-1" (1998 Mar 14):
<input checked="" type="checkbox"/>	A7	Buxbaum, Joseph D., et al., "Calsenilin: A calcium-binding protein that interacts with the presenilins and regulates the levels of a presenilin fragment," <i>Nature Medicine</i> , Vol. 4, No. 10, pp. 1177-1181 (1998)
<input checked="" type="checkbox"/>	A8	Carrion, Angel M., et al., "DREAM is a CA <sup>2+</sup> -regulated transcriptional repressor," <i>Nature</i> , vol. 398, pp 80-84 (1999)
<input checked="" type="checkbox"/>	A9	Castagna, Michela et al., "Molecular Characteristics of Mammalian and Insect Amino Acid Transporters: Implications for Amino Acid Homeostasis" <i>The Journal of Experimental Biology</i> 200:269-286 (1997);
<input checked="" type="checkbox"/>	A10	Cunningham, E. et al., "Phosphatidylinositol transfer protein dictates the rate of inositol trisphosphate production by promoting the synthesis of PIP2," <i>Curr Biol.</i> 5(7):775-83 (1995)
<input checked="" type="checkbox"/>	A11	DeCastro, E. et al., "Regulation of rhodopsin phosphorylation by a family of neuronal calcium sensors" <i>Biochem Biophys Res Commun.</i> 216(1):133-40 (1995)
<input checked="" type="checkbox"/>	A12	Dickeson, S.K., et al., "Isolation and sequence of cDNA clones encoding rat phosphatidylinositol transfer protein," <i>J. Biol. Chem.</i> 264 (28):16557-16564 (1989)
<input checked="" type="checkbox"/>	A13	Dixon, J., "Role of the Kv4.3 K <sup>+</sup> channel in ventricular muscle. A molecular correlate for the transient outward current" <i>Circ Res.</i> 79(4):659-68. (1996)
<input checked="" type="checkbox"/>	A14	Endo, T.A. et al., "A new protein containing an SH2 domain that inhibits JAK kinase," <i>Nature</i> . 387(6636):921-4 (1997)
<input checked="" type="checkbox"/>	A15	Fukuda, J. et al., "Breakdown of cytoskeletal filaments selectively reduces Na and Ca spikes in cultured mammalian neurones," <i>Nature</i> . 294(5836):82-5 (1981)
Examiner		Date Considered 11-12-03
"EXAMINER." Initial if reference considered, whether or not citation is in conformance with MPEP 608; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

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APPLICANT FACSIMILE OF FORM PTO-101 REV 7-81 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY Docket NO <b>AHN-070CP4</b> APPLICANT <b>Rhodes, K. et al.</b> FILING DATE <b>September 27, 2000</b>	SERIAL NO <b>09/670,756</b> CLASS <b>1846</b>
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

81	Funkhouser, J.D.; "Amino-terminal sequence of a phospholipid transfer protein from rat lung." <i>Biochem. Biophys. Res. Commun.</i> 145:1310-1314 (1987)
82	Hoffman, D.A. et al., "K <sup>+</sup> channel regulation of signal propagation in dendrites of hippocampal pyramidal neurons," <i>Nature</i> , 387(6636):869-75 (1997)
83	Hoffman, D.A. et al., "Downregulation of transient K <sup>+</sup> channels in dendrites of hippocampal CA1 pyramidal neurons by activation of PKA and PKC," <i>J Neurosci.</i> 18(10):3521-8 (1998)
84	Honore, E. et al., "Different types of K <sup>+</sup> channel current are generated by different levels of a single mRNA," <i>EMBO J.</i> 11(7):2465-71 (1992)
85	Hoppe-Seyler, "Purification and characterization of two putative HLA class II associated proteins: PHAPI and PHAPII," <i>Biol. Chem.</i> , 375:113-126 (1994)
86	Jan, L.Y. et al., "How might the diversity of potassium channels be generated?" <i>Trends Neurosci.</i> 13(10):415-9 (1990)
87	Johnson, B.D. et al., "A cytoskeletal mechanism for Ca <sup>2+</sup> channel metabolic dependence and inactivation by intracellular Ca <sup>2+</sup> ," <i>Neuron</i> , 10(5):797-804 (1993)
88	Kaab, S. et al., "Molecular basis of transient outward potassium current downregulation in human heart failure: a decrease in Kv4.3 mRNA correlates with a reduction in current density" <i>Circulation</i> , 98(14):1383-93 (1996)
89	Kim, E. et al. "Clustering of Shaker-type K <sup>+</sup> channels by interaction with a family of membrane-associated guanylate kinases" <i>Nature</i> 378:85-88 (2 Nov 1995);
810	Levin, G. et al., "Phosphorylation of a K <sup>+</sup> channel alpha subunit modulates the inactivation conferred by a beta subunit. Involvement of cytoskeleton," <i>J Biol Chem.</i> 271(46):29321-8 (1996)
811	Li, M., et al., "The myeloid leukemia-associated protein SET is a potent inhibitor of protein phosphatase 2A," <i>J. Biol. Chem.</i> 271 (19):11059-11062 (1996)
812	Lombardi, Stephen J. et al. "Structure-Activity Relationships of the K <sub>v</sub> 1.1 Inactivation Domain and Its Putative Receptor Probed Using Peptide Analogs of Voltage-gated Potassium Channel $\alpha$ - and $\beta$ -Subunits" <i>The Journal of Biological Chemistry</i> 273(46):30092-30096 (1998 Nov 13);
813	Masiakowski, P. et al., "Nerve growth factor induces the genes for two proteins related to a family of calcium-binding proteins in PC12 cells," <i>Proc Natl Acad Sci U S A.</i> 85(4):1277-81 (1988)
Examiner	Date Considered 11-13-03
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APPLICANT FACHSHEET OF FORM PTO-1000 REV 7-90 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO <b>AHN-070CP4</b> APPLICANT <b>Rhodes, K. et al.</b> FILING DATE <b>September 27, 2000</b>	SERIAL NO <b>09/670,756</b> GROUP <b>1546</b>
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**LIST OF PUBLICATIONS CITED BY APPLICANT**  
 (Use several sheets if necessary)

**U.S. PATENT DOCUMENTS**

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**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

**OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)**

<input checked="" type="checkbox"/>	C1	Nagase, T. et al., "Prediction of the coding sequences of unidentified human genes. XI. The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro," <i>DNA Res.</i> 6 (5):277-286 (1998)
<input checked="" type="checkbox"/>	C2	Nagata, K. et al., "Replication factor encoded by a putative oncogene, set, associated with myeloid leukemogenesis," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 92:4279-4283 (1995)
<input checked="" type="checkbox"/>	C3	Naka, T. et al., "Structure and function of a new STAT-induced STAT inhibitor," <i>Nature</i> . 387(6638):924-9 (1997)
<input checked="" type="checkbox"/>	C4	Nakamura, T.Y. et al., "Modulation of Kv4 channels, key components of rat ventricular transient outward K <sup>+</sup> current, by PKC," <i>Am J Physiol.</i> 273(4 Pt 2):H1775-86 (1997)
<input checked="" type="checkbox"/>	C5	National Cancer Institute-Cancer Genome Anatomy Project, GenBank Accession Number AJ038858 [online], "...Homo sapiens cDNA clone IMAGE:1659605 3' similar to SW:VIS3 Rat P35333 Visinin-like Protein" (1998-Jul-01)
<input checked="" type="checkbox"/>	C6	Nerbonne, J., "Regulation of voltage-gated K <sup>+</sup> channel expression in the developing mammalian myocardium," <i>J Neurobiol.</i> 37(1):37-59. (1998) Review
<input checked="" type="checkbox"/>	C7	Panaretou, C. et al., "Characterization of p150, an adaptor protein for the human phosphatidylinositol (PtdIns) 3-kinase. Substrate presentation by phosphatidylinositol transfer protein to the p150.Ptdins 3-kinase complex," <i>J Biol Chem.</i> 272(4):2477-85 (1997)
<input checked="" type="checkbox"/>	C8	Pierre, P., et al., "CLIP-170 links endocytic vesicles to microtubules," <i>Cell</i> 70 (6):887-900 (1992)
<input checked="" type="checkbox"/>	C9	Pongs, O. et al., "Regulation of the activity of voltage-gated potassium channels by beta subunits" <i>Sem. Neurosci.</i> 7:137-146 (1995)
<input checked="" type="checkbox"/>	C10	Prevarskaya, N.B. et al., "Role of tyrosine phosphorylation in potassium channel activation. Functional association with prolactin receptor and JAK2 tyrosine kinase," <i>J Biol Chem.</i> 270(41):24282-9 (1995)
<input checked="" type="checkbox"/>	C11	Scannevin, R.H. and Trimmer, J.S. "Cytoplasmic Domains of Voltage-Sensitive K <sup>+</sup> Channels Involved in Mediating Protein-Protein Interactions" <i>Biochemical and Biophysical Research Communications</i> 232:585-589 (1997);
<input checked="" type="checkbox"/>	C12	Serodio, P. et al., "Cloning of a Novel Component of A-Type K <sup>+</sup> Channels Operating at Subthreshold Potential with Unique Expression in Heart and Brain" <i>Journal of Neurophysiology</i> , Vol. 75, No. 5, pp. 2174-2179 (1996)
Examiner		Date Considered <b>11-2-03</b>
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APPLICANT'S FACSIMILE OF FORM PTO-1418 REV. 7-98	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO <b>AHN-070CP4</b>	SERIAL NO <b>09/670,756</b>
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						YES NO

## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

2	D1	Sheng, M. et al., "Subcellular segregation of two A-type K <sup>+</sup> channel proteins in rat central neurons," <i>Neuron</i> , 9(2):271-84 (1992)
	D2	Sheng, M. and Kim, E. "Ion channel associated proteins" <i>Current Opinion in Neurobiology</i> 6:602-608 (1996).
	D3	Simon, H.U. et al., "Molecular characterization of hNRP, a cDNA encoding a human nucleosome-assembly-protein-I-related gene product involved in the induction of cell proliferation," <i>Biochem. J.</i> , 297:389-397 (1994)
	D4	Starr, R. et al., "A family of cytokine-inducible inhibitors of signalling," <i>Nature</i> , 387(6636):917-21 (1997)
	D5	Touchot, N. et al., "Four additional members of the ras gene superfamily isolated by an oligonucleotide strategy: molecular cloning of YPT-related cDNAs from a rat brain library," <i>Proc Natl Acad Sci U S A</i> , 84(23):8210-4 (1987)
	D6	Van Hille, B. et al., "Identification of two subunit A isoforms of the vacuolar H(+)-ATPase in human osteoclastoma," <i>J Biol Chem</i> , 268(10):7075-80 (1993)
	D7	Von Lindern, M. et al., "Can, a putative oncogene associated with myeloid leukemogenesis, may be activated by fusion of its 3' half to different genes: characterization of the set gene," <i>Mol. Cell Biol.</i> , 12:3346-3355 (1992)
	D8	Rhodes, K. et al. BLASTN Search in EST Database using the mouse p19 nucleic acid Sequence (2000)
	D9	Rhodes, K. et al. BLASTN Search in Nucleic Acid Database using the mouse p19 nucleic acid Sequence (2000)
	D10	Rhodes, K. et al. BLASTN Search using the human 1v protein sequence (2000)
	D11	Rhodes, K. et al. BLASTN Search in EST Database using the rat 1v nucleic acid sequence (2000)
	D12	Rhodes, K. et al. BLASTN Search in Nucleic Acid Database using the rat 1v nucleic acid sequence (2000)
	D13	Rhodes, K. et al. BLASTN Search in EST Database using the human 9ql nucleic acid sequence (2000)
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APPLICANT FOLDER OF FORM PTO-100 Rev 7-99	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO <b>AHN-070CP4</b>	SERIAL NO <b>09/670,756</b>
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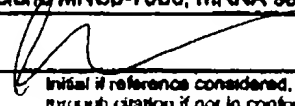
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## FOREIGN PATENT DOCUMENTS

DOC NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

E1	Rhodes, K. et al. BLASTN Search in Nucleic Acid Database using the human 9q1 nucleic acid sequence (2000)
E2	GenBank accession number: AB018264 for Homo sapiens mRNA for KIAA0721 protein, partial cds. (1998)
E3	GenBank accession number: U51924 for Human phosphatase 2A inhibitor I2PP2A mRNA, complete cds. (1996)
E4	GenBank accession number: P30822 for restin (cytoplasmic linker protein-170 alpha-2) (clp-170) (reed-Stenberg intermediate filament associated protein). (1992)
E5	GenBank accession number: P38606 for vacuolar ATP synthase catalytic subunit A, ubiquitous isoform (V-atpase 69 KD subunit) (isoform VA68). (1993)
E6	GenBank accession number: B46091 HS-1063-A1-C02-MR.abi C1T Human Genomic Sperm Library C Homo sapiens genomic clone Plate=CT 786 Col=3 Row=E, genomic survey sequence (1997)
E7	GenBank accession number: P05712 for ras-related protein RAB-2. (1987)
E8	GenBank accession number: P16446 for phosphatidylinositol transfer protein alpha isoform (PTDINS transfer protein alpha) (PTDINSTP) (PI-TP-alpha). (1987)
E9	GenBank accession number: M26758 for Rat phosphatidylinositol transfer protein mRNA, complete cds. (1989)
E10	GenBank accession number: AA849706 for EST192473 Normalized rat muscle, Bento Soares Rattus sp. cDNA clone RMUAH89 3' end, mRNA sequence. (1998)
E11	GenBank accession number: AA757119 for ah53h07.s1 Soares_testis_NHT Homo sapiens cDNA clone 1309405 3', mRNA sequence. (1998)
E12	GenBank accession number: AU035979 Sugeno mouse brain mncb Mus musculus cDNA clone MNCb-7005, mRNA sequence. (1998)

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